

Page 4, between the last two paragraphs at line 23, insert:

--Brief Description of the Drawings--.

Page 5, before the first full paragraph at line 3, insert:

--Description of the Preferred Embodiment--.

Page 10, top, change "Patent claims" to --We Claim--.

In the Claims:

Cancel claims 1 to 4 and enter the following new claims.

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~~--5. A method of handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in a subscriber line circuit of a digital telephone switching system used at least in subregions for data transmission, which comprises:~~

~~directly connecting a telephone set and a data terminal with a modem to a subscriber line circuit of a digital telephone switching system through a common analog subscriber line;~~

~~at least one of:~~

~~subjecting data supplied by the data terminal to a sampling operation at a sampling rate above a sampling rate required~~

for telephone information during analog/digital conversion;
and

coding sampling values representing data supplied by the
data terminal according to a linear characteristic during
analog/digital conversion; and

feeding data originating from and handled by the data terminal
directly to a data transmission network.

6. The method according to claim 5, which further comprises
modulating data signals supplied by the data terminal onto a
carrier signal for transmission on the subscriber line at a
frequency above a frequency band authorized for transmission of
telephone signals.

7. A subscriber line circuit for handling telephone signals
supplied by an analog telephone set and data supplied by a
data terminal in a subscriber line circuit of a digital
telephone switching system used at least in subregions for
data transmission, comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set (Tela, Telb) and
said data terminal directly connected to a subscriber line
circuit of a digital telephone switching system through said
analog subscriber line;

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an analog/digital converter having a sampling rate above a
sampling rate required for telephone information, said
analog/digital converter:

connected to said telephone set and said data terminal;

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receiving said telephone signals and said data signals;
and

producing digital signals; and

a digital signal processor reducing said digital signals at
least when said digital signals represent telephone signals to
a transmission bit rate for telephone transmission and
simultaneously coding said telephone signals according to a
nonlinear characteristic.

8. The subscriber line circuit according to claim 7, wherein
said digital signal processor emits digital signals, and
including:

a data network; and

a digital interface connected to said digital signal processor,
said digital interface:

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conveying digital signals representing data signals emitted
by said digital signal processor to said data network; and

conveying to said digital signal processor digital signals
coming from said data network intended for said data
terminal.

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9. In a digital telephone switching system used at least in
subregions for data transmission, a subscriber line circuit,
comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set and said data
terminal directly connected to the digital telephone switching
system through said analog subscriber line;

an analog/digital converter having a sampling rate above a sampling rate required for telephone information, said analog/digital converter:

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connected to said telephone set and said data terminal;

receiving said telephone signals and said data signals;

and

producing digital signals; and

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a digital signal processor reducing said digital signals at least when said digital signals represent telephone signals to a transmission bit rate for telephone transmission and simultaneously coding said telephone signals according to a nonlinear characteristic.

10. The subscriber line circuit according to claim 9, wherein said digital signal processor emits digital signals, and including:

a data network; and

a digital interface connected to said digital signal processor, said digital interface: